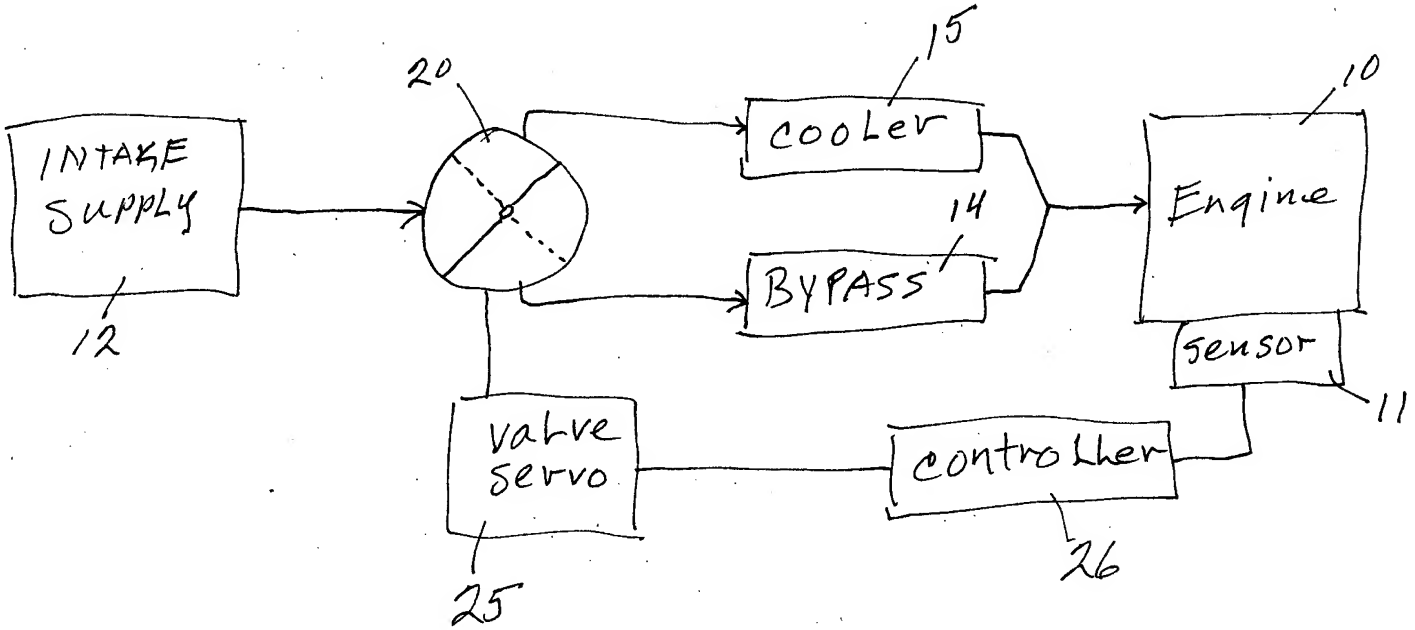
INTAKE
Supply
12
20
15
cooLer
14
BYPASS
10
Engine
sensor
11
valve
servo
25
controLher
26

Fig 1

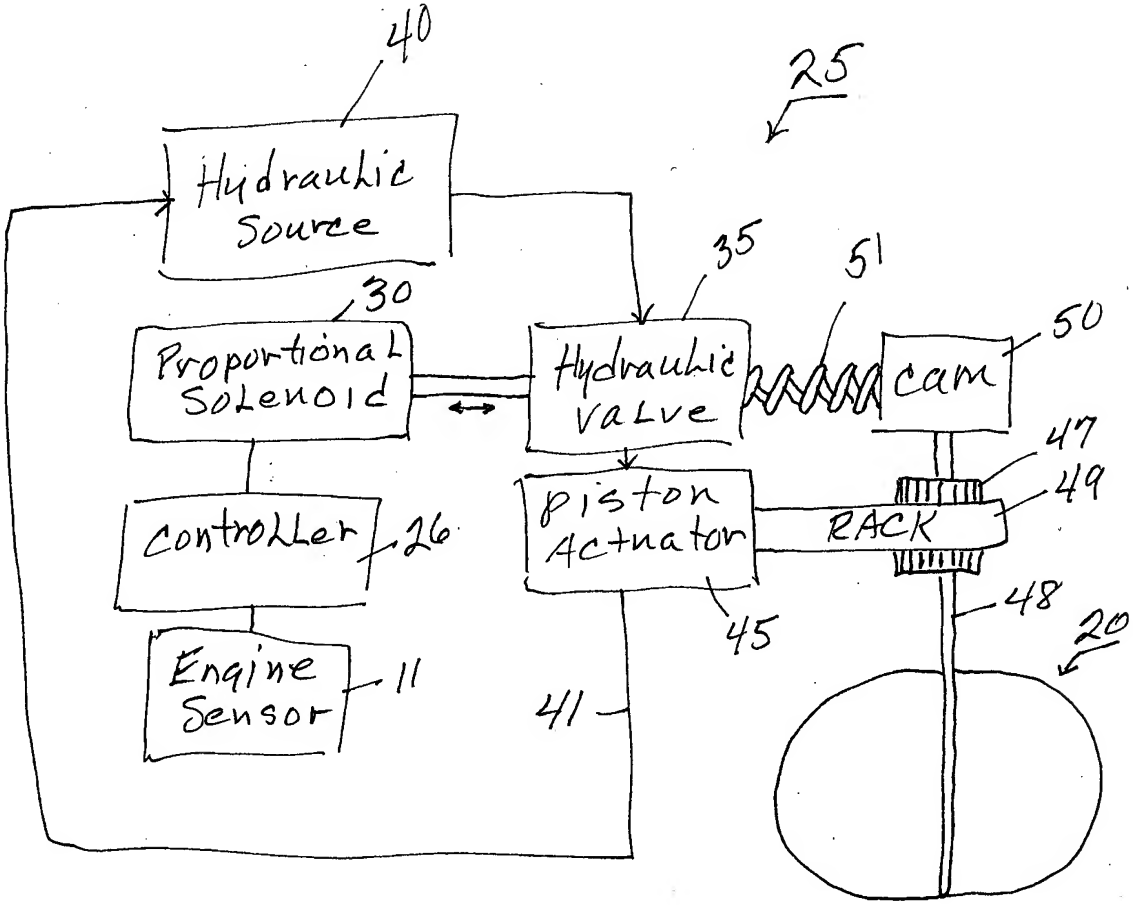
40
25
Hydraulic Source
35
51
30
Proportional Solenoid
Hydraulic valve
cam
50
47
49
Controller
26
piston Actuator
RACK
48
45
20
Engine Sensor
11
41

Fig 2

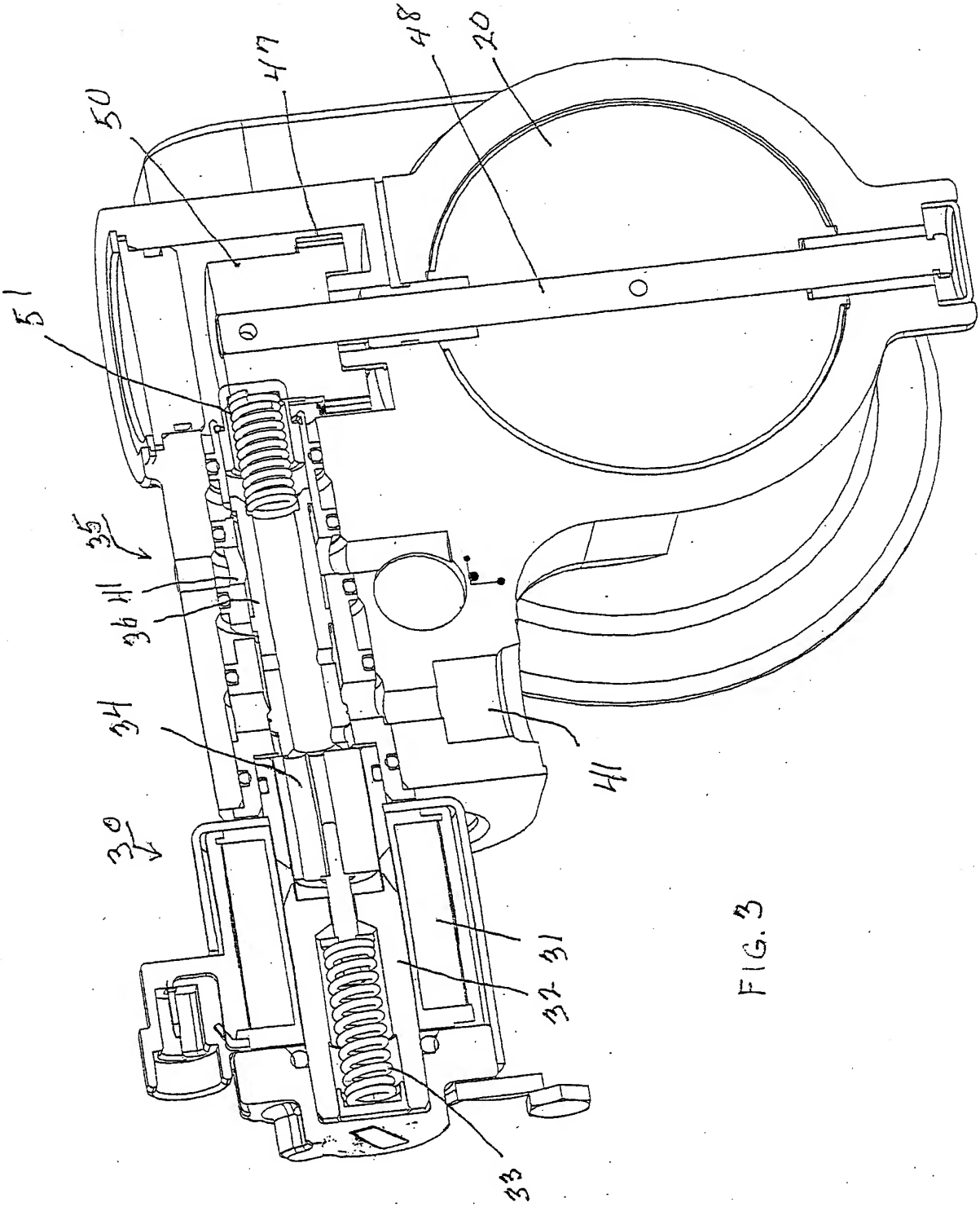

FIG. 3

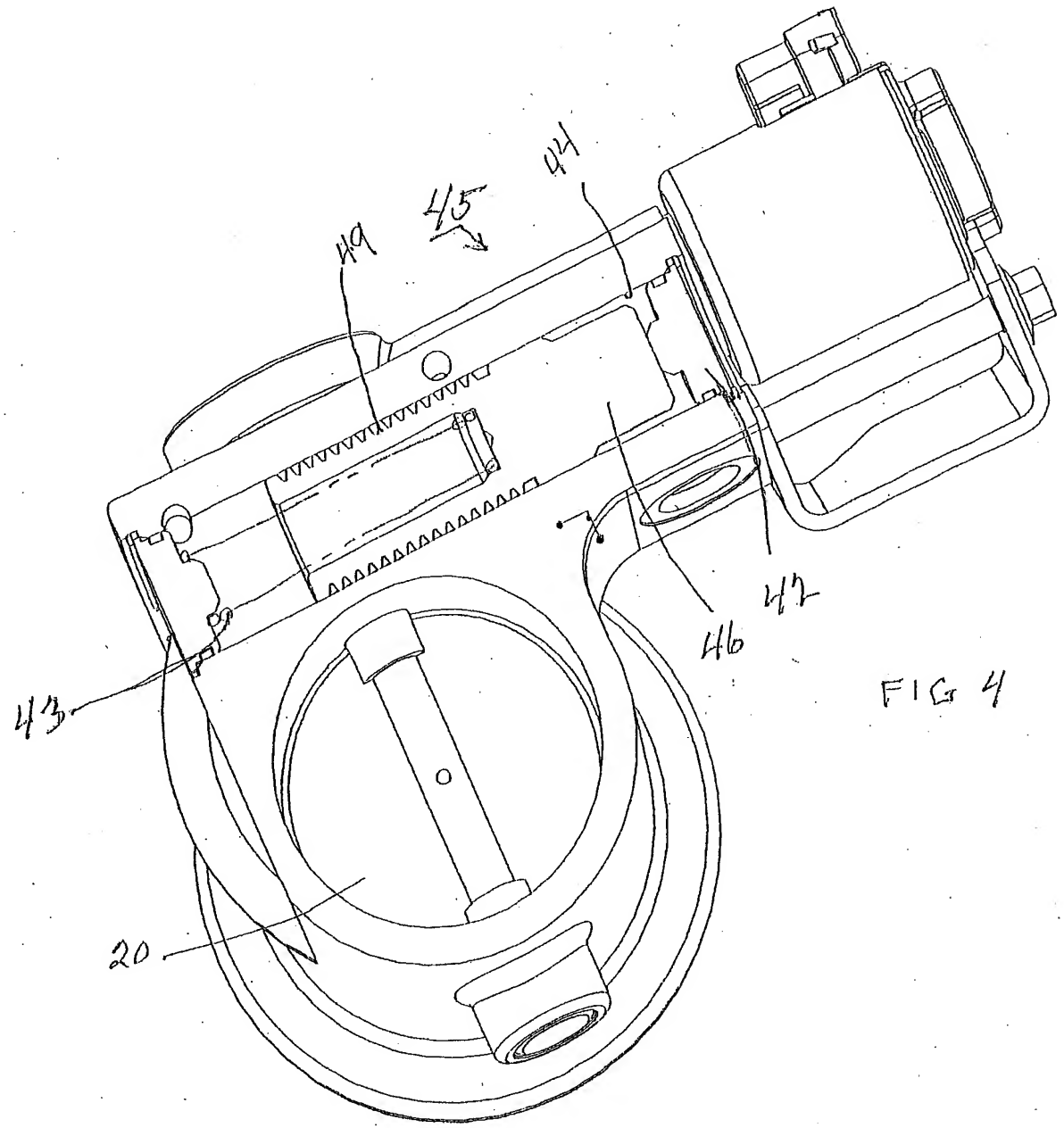

FIG 4

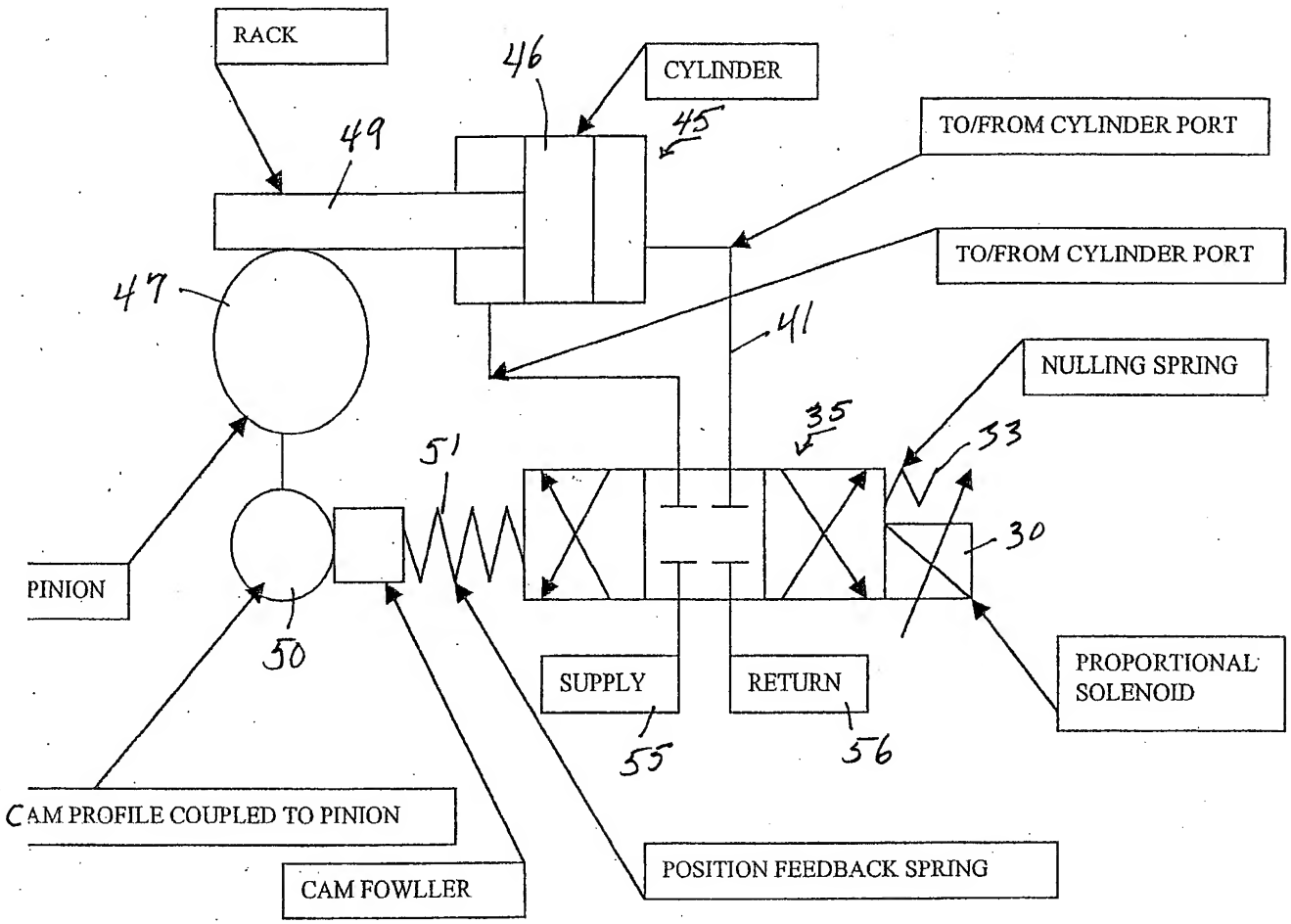
RACK
46
CYLINDER
45
TO/FROM CYLINDER PORT
49
TO/FROM CYLINDER PORT
47
41
NULLING SPRING
35
33
51
30
PINION
50
SUPPLY
RETURN
PROPORTIONAL SOLENOID
55
56
CAM PROFILE COUPLED TO PINION
CAM FOWLLER
POSITION FEEDBACK SPRING

Fig 5

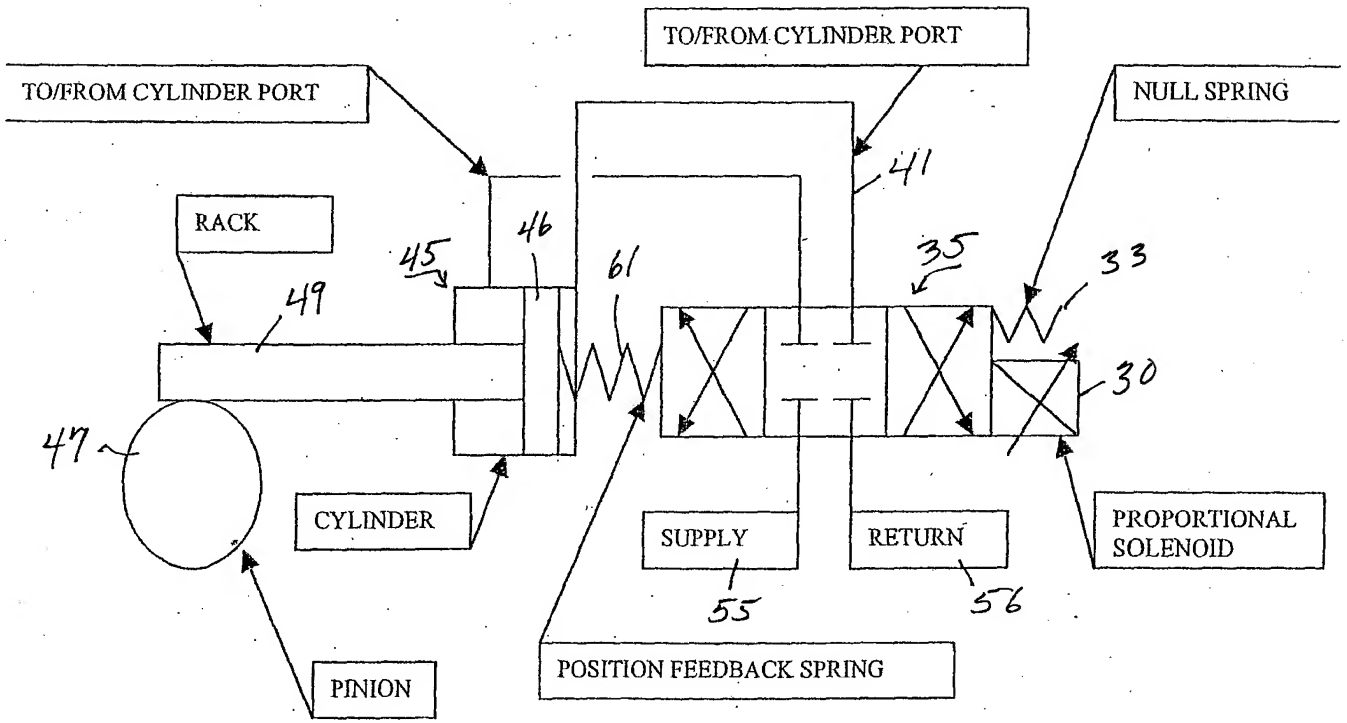
TO/FROM CYLINDER PORT
TO/FROM CYLINDER PORT
NULL SPRING
41
RACK
45
46
61
35
33
49
30
47
CYLINDER
SUPPLY
RETURN
PROPORTIONAL SOLENOID
55
56
PINION
POSITION FEEDBACK SPRING

Fig 6